

FIG. 1A
(PRIOR ART)

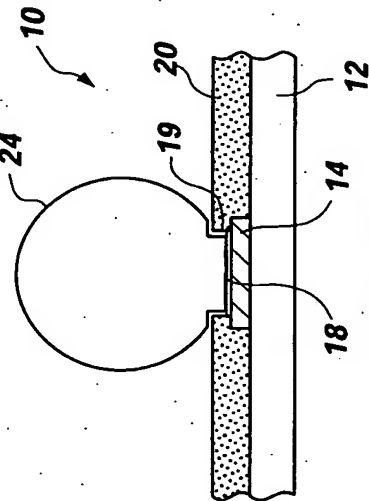


FIG. 1B
(PRIOR ART)

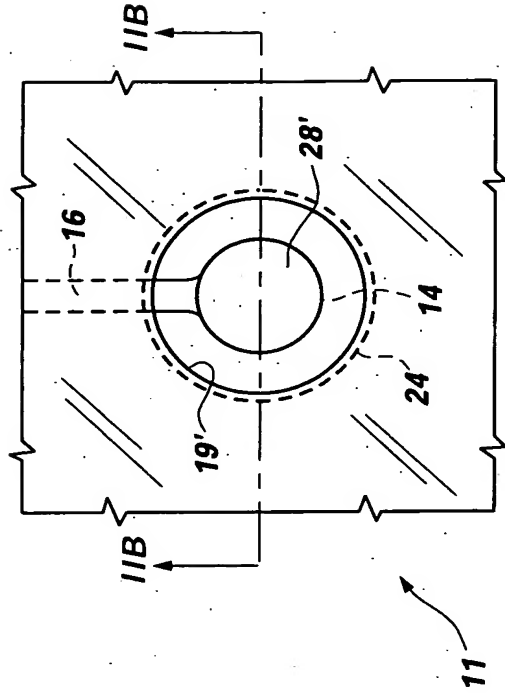


FIG. 2A
(PRIOR ART)

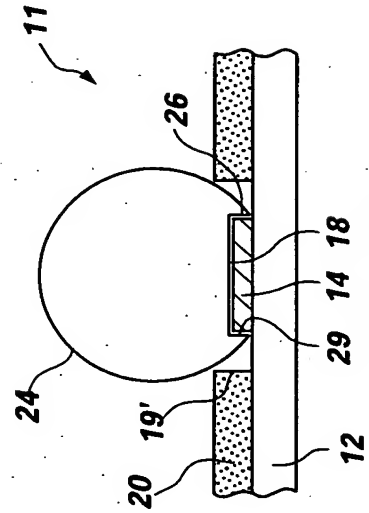


FIG. 2B
(PRIOR ART)

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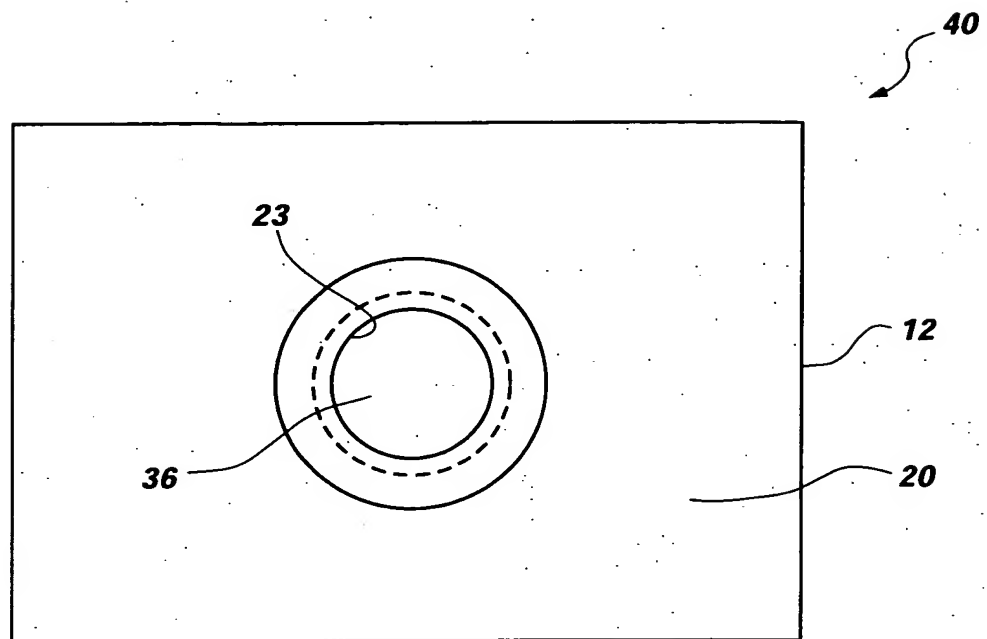


FIG. 3A

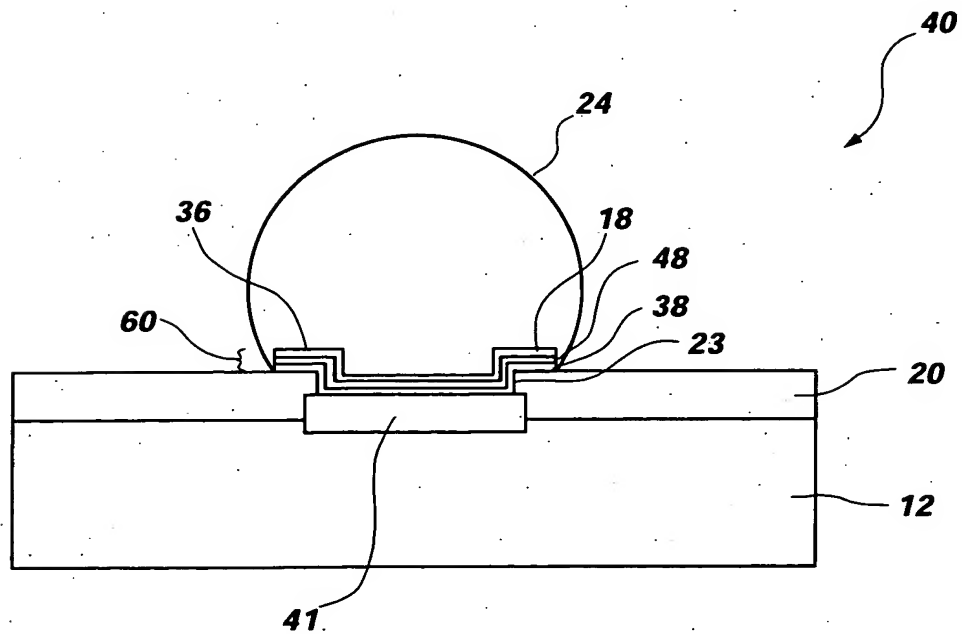


FIG. 3B

INNOVATIVE SOLDER BALL PAD STRUCTURE TO EASE
DESIGN RULE, METHODS OF FABRICATING SAME,....

Inventor: Teck Kheng Lee

Filed: March 12, 2004

Attorney Docket No. 5351.1US

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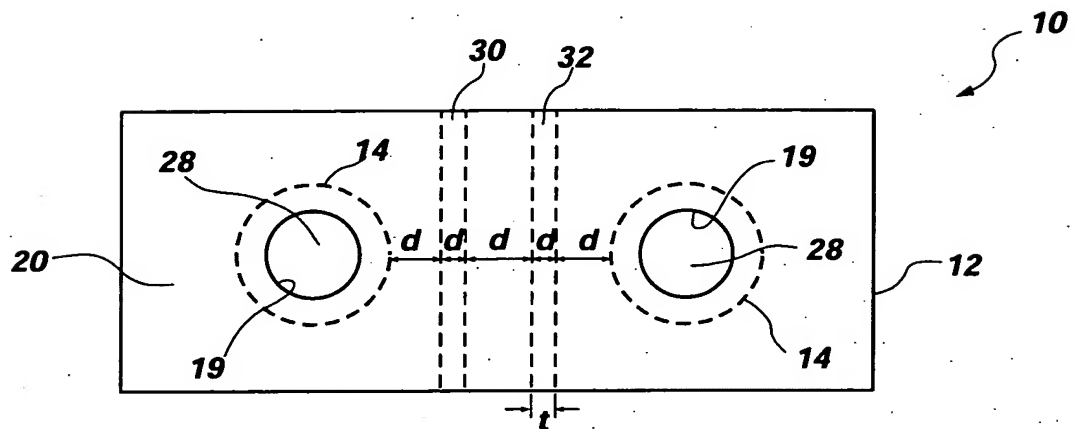


FIG. 4A

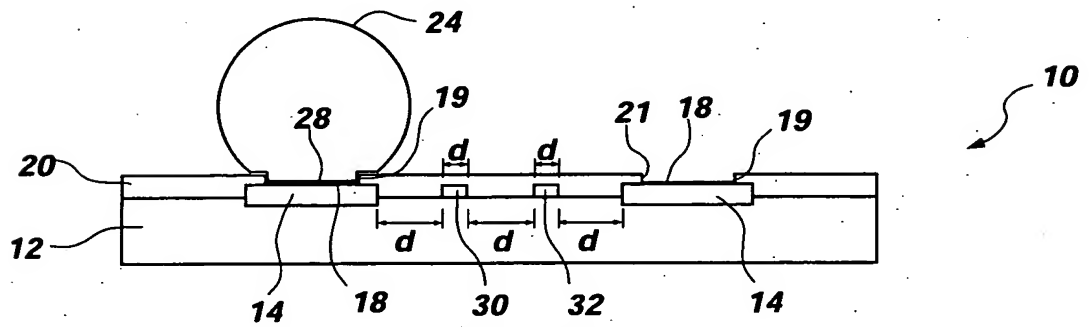


FIG. 4B

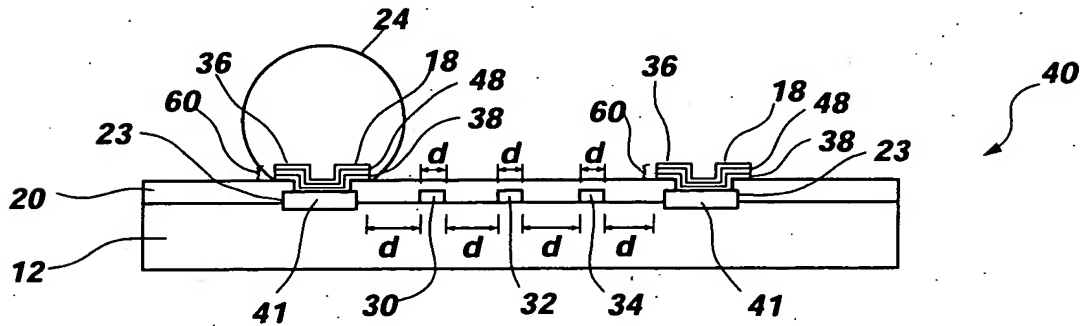


FIG. 5B

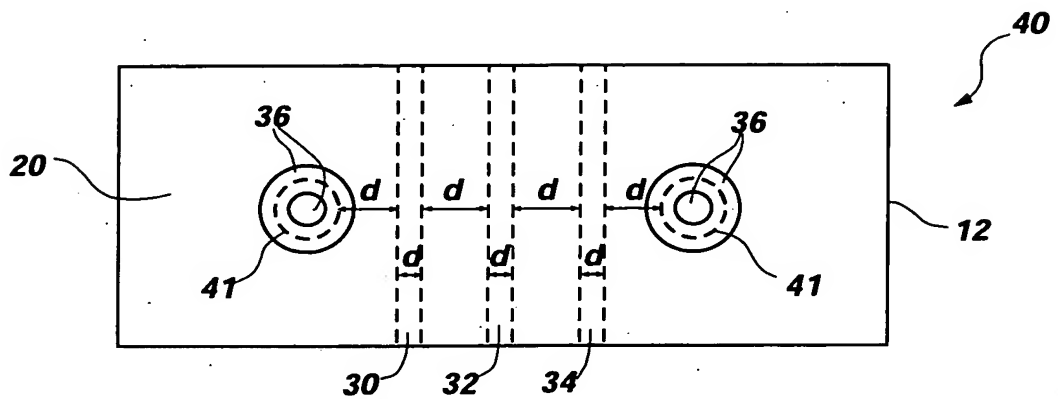


FIG. 5A

INNOVATIVE SOLDER BALL PAD STRUCTURE TO EASE
DESIGN RULE, METHODS OF FABRICATING SAME,....

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Attorney Docket No. 5351.1US

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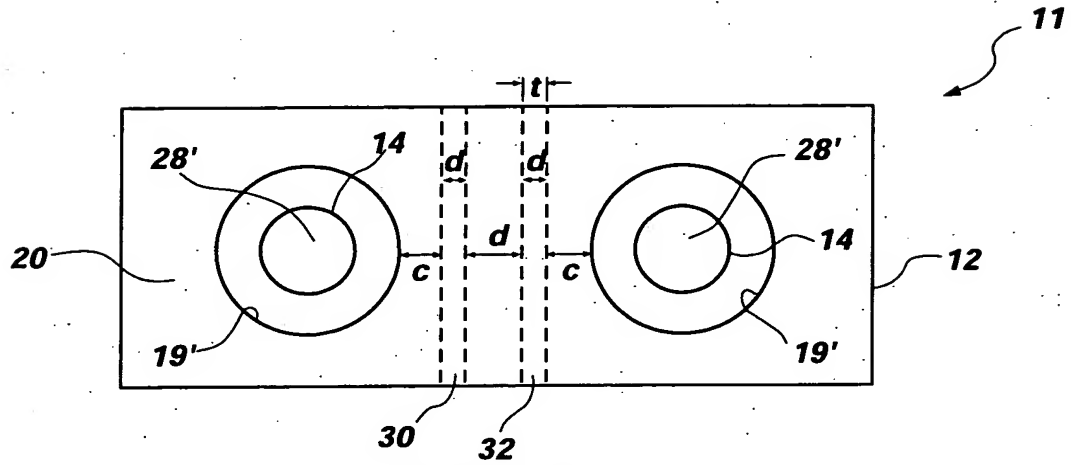


FIG. 6A

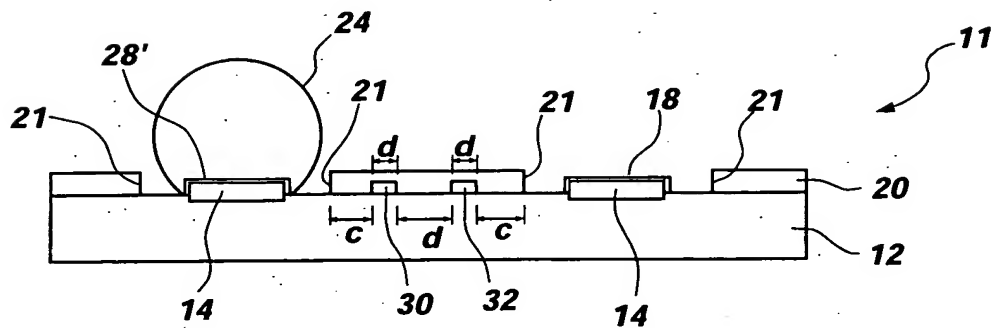


FIG. 6B

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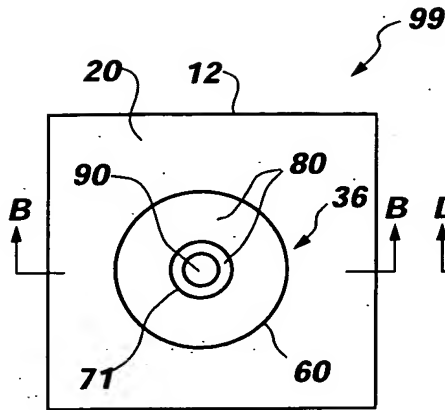


FIG. 7A

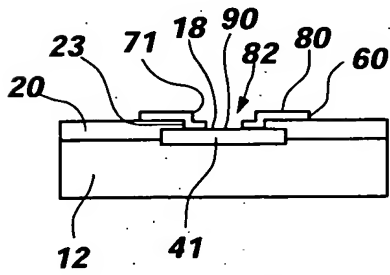


FIG. 7B

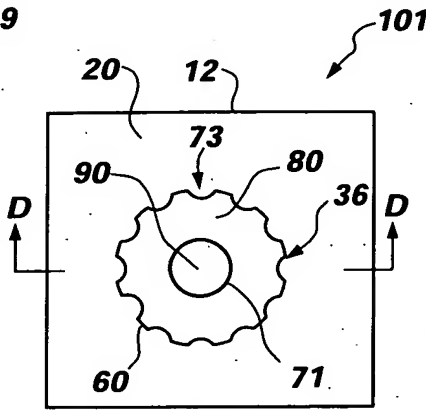


FIG. 7C

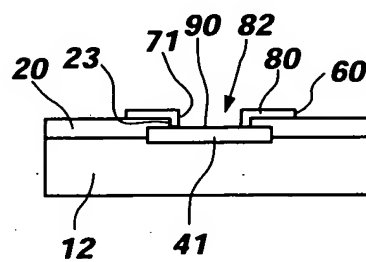


FIG. 7D

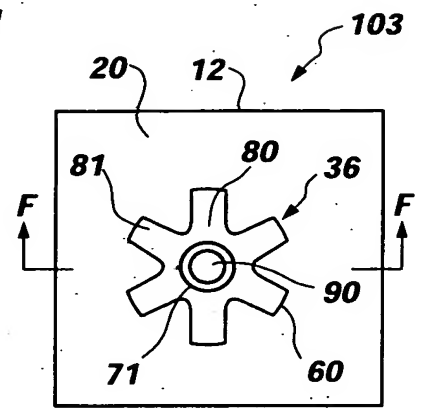


FIG. 7E

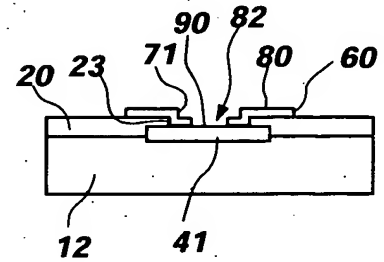


FIG. 7F

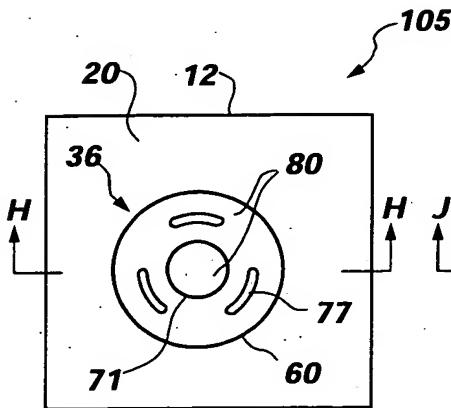


FIG. 7G

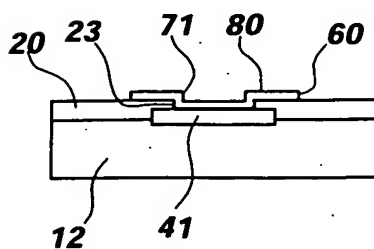


FIG. 7H

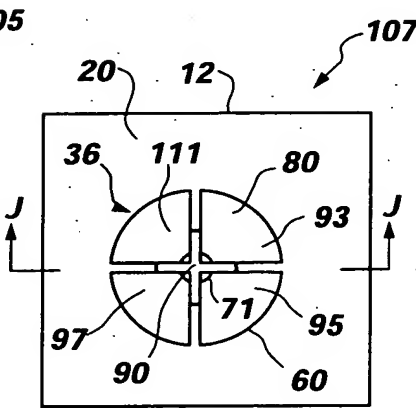


FIG. 7I

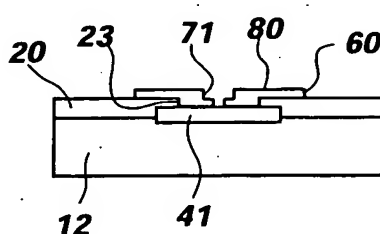


FIG. 7J

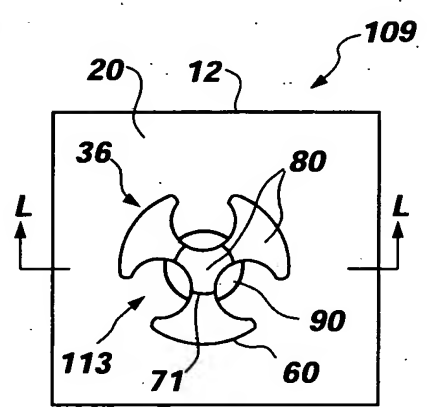


FIG. 7K

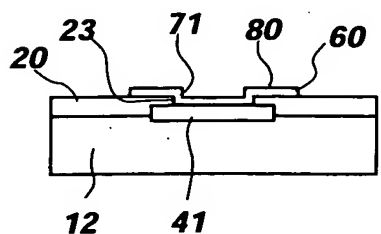


FIG. 7L

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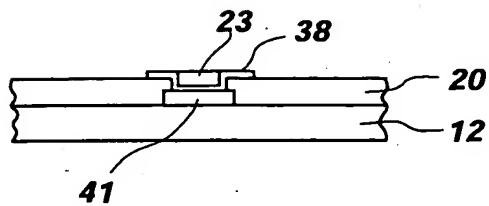


FIG. 8A

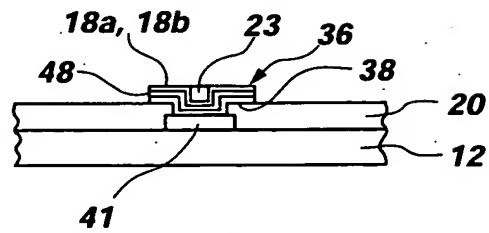


FIG. 8B

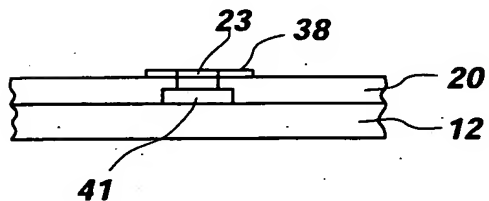


FIG. 9

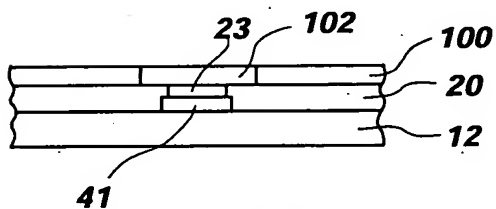


FIG. 10A

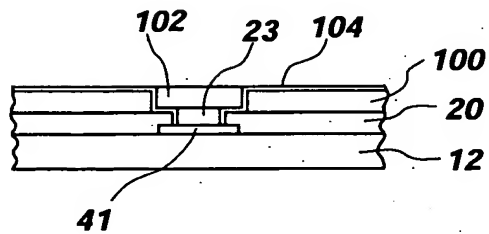


FIG. 10B

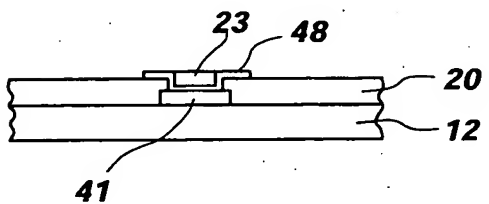


FIG. 10C

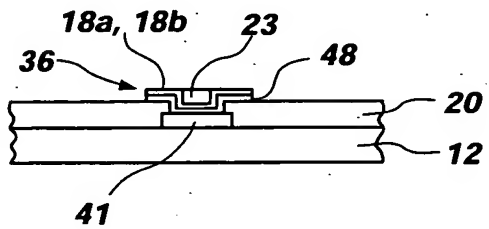


FIG. 10D

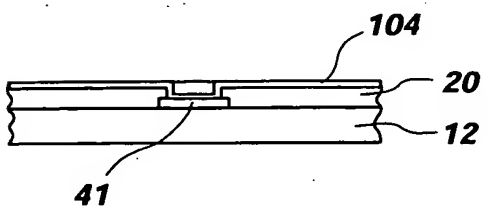


FIG. 11A

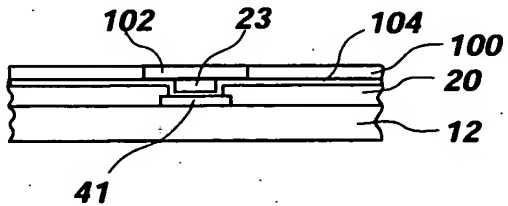


FIG. 11b

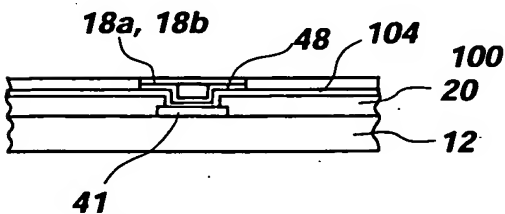


FIG. 11C

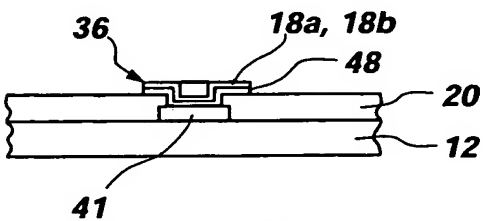


FIG. 11D